

Amendments to the Specification:

Please insert the following paragraph before the paragraph beginning at page 1, line 8:

This application is a continuation of U.S. Patent Application Serial No. 09/651,948, filed on August 31, 2000, and issued as U.S. Patent No. _____.

Please replace the paragraph beginning at page 1, line 8, with the following rewritten paragraph:

This application relates to the following commonly assigned co-pending applications entitled:

~~"Scan Wheel—An Apparatus And Method For Interfacing A High Speed Scan-Path With A Slow Speed TesterTest Equipment," Serial No. 09/653,642~~, filed August 31, 2000, Attorney Docket No. 1662-23700; ~~"Priority Rules For Reducing Network Message Routing LatencyRotary Rule And Coherence Dependence Priority Rule," Serial No. 09/652,322~~, filed August 31, 2000, Attorney Docket No. 1662-27300; ~~"Scalable Directory Based Cache Coherence ProtocolSpeculative Scalable Directory Based Cache Coherence Protocol," Serial No. 09/652,703~~, filed August 31, 2000, Attorney Docket No. 1662-27400; ~~"Scalable Efficient I/O Port Protocol," Serial No. 09/652,391~~, filed August 31, 2000, Attorney Docket No. 1662-27500; ~~"Efficient Translation Lookaside Buffer Miss Processing In Computer Systems For Applications Using Large Pages In Systems With A Large Range Of Page Sizes By Eliminating Page Table Level," Serial No. 09/652,552~~, filed August 31, 2000, Attorney Docket No. 1662-27600; ~~"Fault Containment And Error Recovery Techniques In A Scalable Multiprocessor," Serial No. 09/651,949~~, filed August 31, 2000, Attorney Docket No. 1662-27700; ~~"Speculative Directory Writes In A Directory Based Cache Coherent CC-Non Uniform Memory Access Protocol," Serial No. 09/652,834~~, filed August 31, 2000, Attorney Docket No. 1662-27800; ~~"Special Encoding Of Known Bad Data," Serial No. 09/652,314~~, filed August 31, 2000, Attorney Docket No. 1662-27900; ~~"Broadcast Invalidate Scheme," Serial No.~~

09/652,165, filed August 31, 2000, Attorney Docket No. 1662-28000; "Mechanism To Track Keep All Pages Open Pages In A DRAM Memory System," Serial No. 09/652,704, filed August 31, 2000, Attorney Docket No. 1662-28100; "Programmable DRAM Address Mapping Mechanism," Serial No. 09/653,093, filed August 31, 2000, Attorney Docket No. 1662-28200; "Computer Architecture And System For Efficient Management Of Bi-Directional Bus Mechanism To Enforce Memory Read/Write Fairness, Avoid Tristate Bus Conflicts, And Maximize Memory Bandwidth," Serial No. 09/652,323, filed August 31, 2000, Attorney Docket No. 1662-29200; "An Efficient Address Interleaving With Simultaneous Multiple Locality Options," Serial No. 09/652,452, filed August 31, 2000, Attorney Docket No. 1662-29300; "A High Performance Way Allocation Strategy For A Multi-Way Associative Cache System," Serial No. 09/653,092, filed August 31, 2000, Attorney Docket No. 1662-29400; "A Method For Reducing Directory Writes And Latency In A High Performance, Directory-Based, Coherency Protocol," Serial No. 09/652,324, filed August 31, 2000, Attorney Docket No. 1662-29600; "Mechanism To Reorder Memory Read And Write Transactions For Reduced Latency And Increased Bandwidth," Serial No. 09/653,094, filed August 31, 2000, Attorney Docket No. 1662-30800; "System For Minimizing Memory Look-Ahead Mechanism To Minimize And Manage Bank Conflicts In A Computer Memory System," Serial No. 09/652,325, filed August 31, 2000, Attorney Docket No. 1662-30900; "Computer Resource Allocation Scheme That Ensures Forward Progress, Maximizes Utilization Of Available Buffers And Guarantees Minimum Request Rate Management And Allocation System," Serial No. 09/651,945, filed August 31, 2000, Attorney Docket No. 1662-31000; "Input Data Recovery Scheme," Serial No. 09/653,643, filed August 31, 2000, Attorney Docket No. 1662-31100; "Fast Lane Prefetching," Serial No. 09/652,451, filed August 31, 2000, Attorney Docket No. 1662-31200; "Mechanism For Synchronizing Multiple Skewed Source-Synchronous Data Channels With Automatic Initialization Feature," Serial No. 09/652,480, filed August 31, 2000, Attorney Docket No. 1662-31300;

"A Mechanism To Control The Allocation Of An N-Source Shared Buffer," Serial No. 09/651,924, filed August 31, 2000, Attorney Docket No. 1662-31400; and "Chaining Directory Reads And Writes To Reduce DRAM Bandwidth In A Directory Based CC-NUMA Protocol," Serial No. 09/652,315, filed August 31, 2000, Attorney Docket No. 1662-31500, all of which are incorporated by reference herein.

Finally, please number the paragraphs as provided in the attached substitute specification.